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By: Joyce Abriam Printed: Joyce Abriam

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Tang et al.

Title: NEURON-ASSOCIATED PROTEINS

Serial No.: 09/857,826 Filing Date: To Be Assigned

Examiner: To Be Assigned Group Art Unit: To Be Assigned

United States Patent and Trademark Office
Box Sequence, P.O. Box 2327
Arlington, VA 22202

SUBSTITUTE SUBMISSION UNDER 37 CFR §1.821- 1.825 SEQUENCE LISTING

Sir:

In accordance with the requirements of 37 CFR § 1.821-1.825, Applicants hereby submit one (1) substitute diskette containing the computer-readable information for the Substitute Sequence Listing of the above-identified application. The substitute diskette complies with the requirements of 37 CFR § 1.824 and is IBM PC compatible using a Windows NT Operating System with WordPerfect software and saved in ASCII text format.

Enclosed is a paper copy of the Substitute Sequence Listing.

The content of the Substitute Sequence Listing paper copy is identical to the computer-readable copy, as required under 37 CFR § 1.821(f). No new data has been added.

Respectfully submitted,
INCYTE GENOMICS, INC.

Date: 9 Oct 2002


Diana Hamlet-Cox
Reg. No. 33,302
Direct Dial Telephone: (650) 845-4639

3160 Porter Drive
Palo Alto, California 94304
Phone: (650) 855-0555
Fax: (650) 849-8886

PF-0637 USN



<110> TANG, Y. Tom
YUE, Henry
BAUGHN, Mariah R.
HILLMAN, Jennifer L.
LAL, Preeti
AU-YOUNG, Janice
YANG, Junming
LU, Dyung Aina M.
AZIMZAI, Yalda

<120> NEURON-ASSOCIATED PROTEINS

<130> PF-0637 USN

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<141> Unassigned

<150> 60/119,365
<151> 1999-02-09

<150> 60/124,687
<151> 1999-03-16

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35 40 45
His Arg Ser Asn His Ser Asn Ala Asp Asn Glu Phe Tyr Phe Arg
50 55 60
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65 70 75
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80 85 90

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 Glu Glu Lys Arg Leu Met Val Glu Leu His Asn Leu Tyr Arg Ala
 35 40 45
 Gln Val Ser Pro Thr Ala Ser Asp Met Leu His Met Arg Trp Asp
 50 55 60
 Glu Glu Leu Ala Ala Phe Ala Lys Ala Tyr Ala Arg Gln Cys Val
 65 70 75
 Trp Gly His Asn Lys Glu Arg Gly Arg Arg Gly Glu Asn Leu Phe
 80 85 90
 Ala Ile Thr Asp Glu Gly Met Asp Val Pro Leu Ala Met Glu Glu
 95 100 105
 Trp His His Glu Arg Glu His Tyr Asn Leu Ser Ala Ala Thr Cys
 110 115 120
 Ser Pro Gly Gln Met Cys Gly His Tyr Thr Gln Val Val Trp Ala
 125 130 135
 Lys Thr Glu Arg Ile Gly Cys Gly Ser His Phe Cys Glu Lys Leu
 140 145 150
 Gln Gly Val Glu Glu Thr Asn Ile Glu Leu Leu Val Cys Asn Tyr
 155 160 165
 Glu Pro Pro Gly Asn Val Lys Gly Lys Arg Pro Tyr Gln Glu Gly
 170 175 180
 Thr Pro Cys Ser Gln Cys Pro Ser Gly Tyr His Cys Lys Asn Ser
 185 190 195
 Leu Cys Glu Pro Ile Gly Ser Pro Glu Asp Ala Gln Asp Leu Pro

200	205	210
Tyr Leu Val Thr Glu Ala Pro Ser Phe Arg Ala Thr Glu Ala Ser		
215	220	225
Asp Ser Arg Lys Met Gly Thr Pro Ser Ser Leu Ala Thr Gly Ile		
230	235	240
Pro Ala Phe Leu Val Thr Glu Val Ser Gly Ser Leu Ala Thr Lys		
245	250	255
Ala Leu Pro Ala Val Glu Thr Gln Ala Pro Thr Ser Leu Ala Thr		
260	265	270
Lys Asp Pro Pro Ser Met Ala Thr Glu Ala Pro Pro Cys Val Thr		
275	280	285
Thr Glu Val Pro Ser Ile Leu Ala Ala His Ser Leu Pro Ser Leu		
290	295	300
Asp Glu Glu Pro Val Thr Phe Pro Lys Ser Thr His Val Pro Ile		
305	310	315
Pro Lys Ser Ala Asp Lys Val Thr Asp Lys Thr Lys Val Pro Ser		
320	325	330
Arg Ser Pro Glu Asn Ser Leu Asp Pro Lys Met Ser Leu Thr Gly		
335	340	345
Ala Arg Glu Leu Leu Pro His Ala Gln Glu Glu Ala Glu Ala Glu		
350	355	360
Ala Glu Leu Pro Pro Ser Ser Glu Val Leu Ala Ser Val Phe Pro		
365	370	375
Ala Gln Asp Lys Pro Gly Glu Leu Gln Ala Thr Leu Asp His Thr		
380	385	390
Gly His Thr Ser Ser Lys Ser Leu Pro Asn Phe Pro Asn Thr Ser		
395	400	405
Ala Thr Ala Asn Ala Thr Gly Gly Arg Ala Leu Ala Leu Gln Ser		
410	415	420
Ser Leu Pro Gly Ala Glu Gly Pro Asp Lys Pro Ser Val Val Ser		
425	430	435
Gly Leu Asn Ser Gly Pro Gly His Val Trp Gly Pro Leu Leu Gly		
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Leu Leu Leu Pro Pro Leu Val Leu Ala Gly Ile Phe		
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 20 25 30
 Val Pro Ser Ala Pro Pro Ser Tyr Glu Glu Ala Thr Ser Gly Glu
 35 40 45
 Gly Met Lys Ala Gly Ala Phe Pro Pro Ala Pro Thr Ala Val Pro
 50 55 60

Leu	His	Pro	Ser	Trp	Ala	Tyr	Val	Asp	Pro	Ser	Ser	Ser	Ser	Ser
				65				70						75
Tyr	Asp	Asn	Gly	Phe	Pro	Thr	Gly	Asp	His	Glu	Leu	Phe	Thr	Thr
				80				85						90
Phe	Ser	Trp	Asp	Asp	Gln	Lys	Val	Arg	Arg	Val	Phe	Val	Arg	Lys
				95				100						105
Val	Tyr	Thr	Ile	Leu	Leu	Ile	Gln	Leu	Leu	Val	Thr	Leu	Ala	Val
				110				115						120
Val	Ala	Leu	Phe	Thr	Phe	Cys	Asp	Pro	Val	Lys	Asp	Tyr	Val	Gln
				125				130						135
Ala	Asn	Pro	Gly	Trp	Tyr	Trp	Ala	Ser	Tyr	Ala	Val	Phe	Phe	Ala
				140				145						150
Thr	Tyr	Leu	Thr	Leu	Ala	Cys	Cys	Ser	Gly	Pro	Arg	Arg	His	Phe
				155				160						165
Pro	Trp	Asn	Leu	Ile	Leu	Leu	Thr	Val	Phe	Thr	Leu	Ser	Met	Ala
				170				175						180
Tyr	Leu	Thr	Gly	Met	Leu	Ser	Ser	Tyr	Tyr	Asn	Thr	Thr	Ser	Val
				185				190						195
Leu	Leu	Cys	Leu	Gly	Ile	Thr	Ala	Leu	Val	Cys	Leu	Ser	Val	Thr
				200				205						210
Val	Phe	Ser	Phe	Gln	Thr	Lys	Phe	Asp	Phe	Thr	Ser	Cys	Gln	Gly
				215				220						225
Val	Leu	Phe	Val	Leu	Leu	Met	Thr	Leu	Phe	Phe	Ser	Gly	Leu	Ile
				230				235						240
Leu	Ala	Ile	Leu	Leu	Pro	Phe	Gln	Tyr	Val	Pro	Trp	Leu	His	Ala
				245				250						255
Val	Tyr	Ala	Ala	Leu	Gly	Ala	Gly	Val	Phe	Thr	Leu	Phe	Leu	Ala
				260				265						270
Leu	Asp	Thr	Gln	Leu	Leu	Met	Gly	Asn	Arg	Arg	His	Ser	Leu	Ser
				275				280						285
Pro	Glu	Glu	Tyr	Ile	Phe	Gly	Ala	Leu	Asn	Ile	Tyr	Leu	Asp	Ile
				290				295						300
Ile	Tyr	Ile	Phe	Thr	Phe	Phe	Leu	Gln	Leu	Phe	Gly	Thr	Asn	Arg
				305				310						315
Glu														

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 35 40 45
 Leu Glu Ala Gln Asn Gln Glu Arg Arg Lys Ser Lys Ser Gly Ala

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Cys Ala Val Arg Ala His Gly Asp Pro Val Ser Glu Ser Phe Val		
35 40 45		
Gln Arg Val Tyr Gln Pro Phe Leu Thr Thr Cys Asp Gly His Arg		
50 55 60		
Ala Cys Ser Thr Tyr Arg Thr Ile Tyr Arg Thr Ala Tyr Arg Arg		
65 70 75		
Ser Pro Gly Leu Ala Pro Ala Arg Pro Arg Tyr Ala Cys Cys Pro		
80 85 90		
Gly Trp Lys Arg Thr Ser Gly Leu Pro Gly Ala Cys Gly Ala Ala		
95 100 105		
Ile Cys Gln Pro Pro Cys Arg Asn Gly Gly Ser Cys Val Gln Pro		
110 115 120		
Gly Arg Cys Arg Cys Pro Ala Gly Trp Arg Gly Asp Thr Cys Gln		
125 130 135		
Ser Asp Val Asp Glu Cys Ser Ala Arg Arg Gly Gly Cys Pro Gln		
140 145 150		
Arg Cys Val Asn Thr Ala Gly Ser Tyr Trp Cys Gln Cys Trp Glu		
155 160 165		
Gly His Ser Leu Ser Ala Asp Gly Thr Leu Cys Val Pro Lys Gly		
170 175 180		
Gly Pro Pro Arg Val Ala Pro Asn Pro Thr Gly Val Asp Ser Ala		
185 190 195		
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200 205 210		
Glu Glu Lys Leu Gln Leu Val Leu Ala Pro Leu His Ser Leu Ala		
215 220 225		
Ser Gln Ala Leu Glu His Gly Leu Pro Asp Pro Gly Ser Leu Leu		
230 235 240		
Val His Ser Phe Gln Gln Leu Gly Arg Ile Asp Ser Leu Ser Glu		
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Gln Ile Ser Phe Leu Glu Glu Gln Leu Gly Ser Cys Ser Cys Lys		
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Lys Asp Ser		

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					20					25				30
Arg	Val	Glu	Val	Ser	Gly	Asp	Ala	Ser	Cys	Cys	Ser	Pro	Asp	Pro
				35						40				45
Ile	Ser	Pro	Glu	Asp	Leu	Pro	Arg	Gln	Val	Glu	Leu	Leu	Asp	Ala
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Val	Ser	Gln	Ala	Ala	Gln	Lys	Tyr	Glu	Ala	Leu	Tyr	Met	Gly	Thr
					65					70				75
Leu	Pro	Val	Thr	Lys	Ala	Met	Gly	Met	Asp	Val	Leu	Asn	Glu	Ala
				80						85				90
Ile	Gly	Thr	Leu	Thr	Ala	Arg	Gly	Asp	Arg	Asn	Ala	Trp	Val	Pro
				95						100				105
Thr	Met	Leu	Ser	Val	Ser	Asp	Ser	Leu	Met	Thr	Ala	His	Pro	Ile
				110						115				120
Gln	Ala	Glu	Ala	Ser	Thr	Glu	Glu	Glu	Pro	Leu	Trp	Gln	Cys	Pro
				125						130				135
Val	Arg	Leu	Val	Thr	Phe	Ile	Gly	Val	Gly	Arg	Asp	Pro	His	Thr
				140						145				150
Phe	Gly	Leu	Ile	Ala	Asp	Leu	Gly	Arg	Gln	Ser	Phe	Gln	Cys	Ala
				155						160				165
Ala	Phe	Trp	Cys	Gln	Pro	His	Ala	Gly	Gly	Leu	Ser	Glu	Ala	Val
				170						175				180
Gln	Ala	Ala	Cys	Met	Val	Gln	Tyr	Gln	Lys	Cys	Leu	Val	Ala	Ser
				185						190				195
Ala	Ala	Arg	Gly	Lys	Ala	Trp	Gly	Ala	Gln	Ala	Arg	Ala	Arg	Leu
				200						205				210
Arg	Leu	Lys	Arg	Thr	Ser	Ser	Met	Asp	Ser	Pro	Gly	Gly	Pro	Leu
				215						220				225
Pro	Leu	Pro	Leu	Leu	Lys	Gly	Gly	Val	Gly	Gly	Ala	Gly	Ala	Thr
				230						235				240
Pro	Arg	Lys	Arg	Gly	Val	Phe	Ser	Phe	Leu	Asp	Ala	Phe	Arg	Leu
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Lys	Pro	Ser	Leu	Leu	His	Met	Pro							
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PF-0637 USN

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Arg	Ala	Leu	Glu	Glu	Gln	Leu	Leu	Lys	Tyr	Ser	Pro	Asp	Pro	Val
						20			25					30
Val	Val	Arg	Gly	Ser	Gly	His	Val	Thr	Val	Phe	Gly	Leu	Ser	Asn
						35			40					45
Lys	Phe	Glu	Ser	Glu	Phe	Pro	Ser	Ser	Leu	Thr	Gly	Lys	Val	Ala
						50			55					60
Pro	Glu	Glu	Phe	Lys	Ala	Ser	Ile	Asn	Arg	Val	Asn	Ser	Cys	Leu
						65			70					75
Lys	Lys	Asn	Leu	Pro	Val	Asn	Val	Arg	Trp	Leu	Leu	Cys	Gly	Cys
						80			85					90
Leu	Cys	Cys	Cys	Cys	Thr	Leu	Gly	Cys	Ser	Met	Trp	Pro	Val	Ile
						95			100					105
Cys	Leu	Ser	Lys	Arg	Thr	Arg	Arg	Ser	Ile	Glu	Lys	Leu	Leu	Glu
						110			115					120
Trp	Glu	Asn	Asn	Arg	Leu	Tyr	His	Lys	Leu	Cys	Leu	His	Trp	Arg
						125			130					135
Leu	Ser	Lys	Arg	Lys	Cys	Glu	Thr	Asn	Asn	Met	Met	Glu	Tyr	Val
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						20			25					30
Tyr	Pro	Met	Gln	Ala	Tyr	Val	Asp	Pro	Ser	Asn	Pro	Asn	Ala	Gly
						35			40					45
Lys	Val	Leu	Leu	Pro	Thr	Pro	Ser	Met	Asp	Pro	Val	Cys	Ser	Pro
						50			55					60
Ala	Pro	Tyr	Asp	His	Ala	Gln	Pro	Leu	Val	Gly	His	Ser	Thr	Glu
						65			70					75
Pro	Leu	Ser	Ala	Pro	Pro	Pro	Val	Pro	Val	Val	Pro	His	Val	Ala
						80			85					90
Ala	Pro	Val	Glu	Val	Ser	Ser	Ser	Gln	Tyr	Val	Ala	Gln	Ser	Asp
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Gly	Val	Val	His	Gln	Asp	Ser	Ser	Val	Ala	Val	Leu	Pro	Val	Pro
						110			115					120

Ala Pro Gly Pro Val Gln Gly Gln Asn Tyr Ser Val Trp Asp Ser
 125 130 135
 Asn Gln Gln Ser Val Ser Val Gln Gln Gln Tyr Ser Pro Ala Gln
 140 145 150
 Ser Gln Ala Thr Ile Tyr Tyr Gln Gly Gln Thr Cys Pro Thr Val
 155 160 165
 Tyr Gly Val Thr Ser Pro Tyr Ser Gln Thr Thr Pro Pro Ile Val
 170 175 180
 Gln Ser Tyr Ala Gln Pro Ser Leu Gln Tyr Ile Gln Gly Gln Gln
 185 190 195
 Ile Phe Thr Ala His Pro Gln Gly Val Val Val Gln Pro Ala Ala
 200 205 210
 Ala Val Thr Thr Ile Val Ala Pro Gly Gln Pro Gln Pro Leu Gln
 215 220 225
 Pro Ser Glu Met Val Val Thr Asn Asn Leu Leu Asp Leu Pro Pro
 230 235 240
 Pro Ser Pro Pro Lys Pro Lys Thr Ile Val Leu Pro Pro Asn Trp
 245 250 255
 Lys Thr Ala Arg Asp Pro Glu Gly Lys Ile Tyr Tyr Tyr His Val
 260 265 270
 Ile Thr Arg Gln Thr Gln Trp Asp Pro Pro Thr Trp Glu Ser Pro
 275 280 285
 Gly Asp Asp Ala Ser Leu Glu His Glu Ala Glu Met Asp Leu Gly
 290 295 300
 Thr Pro Thr Tyr Asp Glu Asn Pro Met Lys Ala Ser Lys Lys Pro
 305 310 315
 Lys Thr Ala Glu Ala Asp Thr Ser Ser Glu Leu Ala Lys Lys Ser
 320 325 330
 Lys Glu Val Phe Arg Lys Glu Met Ser Gln Phe Ile Val Gln Cys
 335 340 345
 Leu Asn Pro Tyr Arg Lys Pro Asp Cys Lys Val Gly Arg Ile Thr
 350 355 360
 Thr Thr Glu Asp Phe Lys His Leu Ala Arg Lys Leu Thr His Gly
 365 370 375
 Val Met Asn Lys Glu Leu Lys Tyr Cys Lys Asn Pro Glu Asp Leu
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 Lys Tyr Met Gln Lys Phe Gly Ala Val Tyr Lys Pro Lys Glu Asp
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 Thr Glu Leu Glu

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Leu	Ala	Ala	Ala	Ala	Ala	Gly	Pro	Asn	Arg	Cys	Asp	Thr	Ile	Tyr
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Gln	Gly	Phe	Ala	Glu	Cys	Leu	Ile	Arg	Leu	Gly	Asp	Ser	Met	Gly
						50				55				60
Arg	Gly	Gly	Glu	Leu	Glu	Thr	Ile	Cys	Arg	Ser	Trp	Asn	Asp	Phe
						65				70				75
His	Ala	Cys	Ala	Ser	Gln	Val	Leu	Ser	Gly	Cys	Pro	Glu	Glu	Ala
						80				85				90
Ala	Ala	Val	Trp	Glu	Ser	Leu	Gln	Gln	Glu	Ala	Arg	Gln	Ala	Pro
						95				100				105
Arg	Pro	Asn	Asn	Leu	His	Thr	Leu	Cys	Gly	Ala	Pro	Val	His	Val
						110				115				120
Arg	Glu	Arg	Gly	Thr	Gly	Ser	Lys	Thr	Asn	Gln	Glu	Thr	Leu	Arg
						125				130				135
Ala	Thr	Ala	Pro	Ala	Leu	Pro	Met	Ala	Pro	Ala	Pro	Pro	Leu	Leu
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Ala	Ala	Ala	Leu	Ala	Leu	Ala	Tyr	Leu	Leu	Arg	Pro	Leu	Ala	
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Pro	Pro	Gln	Gln	Tyr	Leu	Thr	Leu	Ala	Phe	Thr	Val	Leu	Leu	Phe
					20				25					30
His	Phe	Asp	Tyr	Pro	Arg	Leu	Ser	Gln	Gly	Phe	Leu	Leu	Asp	Tyr
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Phe	Leu	Met	Ser	Leu	Leu	Cys	Ser	Lys	Leu	Trp	Asp	Leu	Leu	Tyr
					50				55					60
Lys	Leu	Arg	Phe	Val	Leu	Thr	Tyr	Ile	Ala	Pro	Trp	Gln	Ile	Thr
					65				70					75
Trp	Gly	Ser	Ala	Phe	His	Ala	Phe	Ala	Gln	Pro	Phe	Ala	Val	Pro
					80				85					90
His	Ser	Ala	Met	Leu	Phe	Val	Gln	Ala	Leu	Leu	Ser	Gly	Leu	Phe
					95				100					105
Ser	Thr	Pro	Leu	Asn	Pro	Leu	Leu	Gly	Ser	Ala	Val	Phe	Ile	Met
					110				115					120
Ser	Tyr	Ala	Arg	Pro	Leu	Lys	Phe	Trp	Glu	Arg	Asp	Tyr	Asn	Thr
					125				130					135
Lys	Arg	Val	Asp	His	Ser	Asn	Thr	Arg	Leu	Val	Thr	Gln	Leu	Asp
					140				145					150
Arg	Asn	Pro	Gly	Ala	Asp	Asp	Asn	Asn	Leu	Asn	Ser	Ile	Phe	Tyr
					155				160					165

Glu	His	Leu	Thr	Arg	Ser	Leu	Gln	His	Thr	Leu	Cys	Gly	Asp	Leu
										170	175			180
Val	Leu	Gly	Arg	Trp	Gly	Asn	Tyr	Gly	Pro	Gly	Asp	Cys	Phe	Val
										185	190			195
Leu	Ala	Ser	Asp	Tyr	Leu	Asn	Ala	Leu	Val	His	Leu	Ile	Glu	Val
										200	205			210
Gly	Asn	Gly	Leu	Val	Thr	Phe	Gln	Leu	Arg	Gly	Leu	Glu	Phe	Arg
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Gly	Thr	Tyr	Cys	Gln	Gln	Arg	Glu	Val	Glu	Ala	Ile	Thr	Glu	Gly
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Val	Glu	Glu	Asp	Glu	Gly	Cys	Cys	Cys	Glu	Pro	Gly	His	Leu	
										245	250			255
Pro	Arg	Val	Leu	Ser	Phe	Asn	Ala	Ala	Phe	Gly	Gln	Arg	Trp	Leu
										260	265			270
Ala	Trp	Glu	Val	Thr	Ala	Ser	Lys	Tyr	Val	Leu	Glu	Gly	Tyr	Ser
										275	280			285
Ile	Ser	Asp	Asn	Asn	Ala	Ala	Ser	Met	Leu	Gln	Val	Phe	Asp	Leu
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Arg	Lys	Ile	Leu	Ile	Thr	Tyr	Tyr	Val	Lys	Ser	Ile	Ile	Tyr	Tyr
										305	310			315
Val	Ser	Arg	Ser	Pro	Lys	Leu	Glu	Val	Trp	Leu	Ser	His	Glu	Gly
										320	325			330
Ile	Thr	Ala	Ala	Leu	Arg	Pro	Val	Arg	Val	Pro	Gly	Tyr	Ala	Asp
										335	340			345
Ser	Asp	Pro	Thr	Phe	Ser	Leu	Ser	Val	Asp	Glu	Asp	Tyr	Asp	Leu
										350	355			360
Arg	Leu	Ser	Gly	Leu	Ser	Leu	Pro	Ser	Phe	Cys	Ala	Val	His	Leu
										365	370			375
Glu	Trp	Ile	Gln	Tyr	Cys	Ala	Ser	Arg	Arg	Thr	Arg	Pro	Val	Asp
										380	385			390
Gln	Asp	Trp	Asn	Ser	Pro	Leu	Val	Thr	Leu	Cys	Phe	Gly	Leu	Cys
										395	400			405
Val	Leu	Gly	Arg	Arg	Ala	Leu	Gly	Thr	Ala	Ser	His	Ser	Met	Ser
										410	415			420
Ala	Ser	Leu	Glu	Pro	Phe	Leu	Tyr	Gly	Leu	His	Ala	Leu	Phe	Lys
										425	430			435
Gly	Asp	Phe	Arg	Ile	Thr	Ser	Pro	Arg	Asp	Glu	Trp	Val	Phe	Ala
										440	445			450
Asp	Met	Asp	Leu	Leu	His	Arg	Val	Val	Ala	Pro	Gly	Val	Arg	Met
										455	460			465
Ala	Leu	Lys	Leu	His	Gln	Asp	His	Phe	Thr	Ser	Pro	Asp	Glu	Tyr
										470	475			480
Glu	Glu	Pro	Ala	Ala	Leu	Tyr	Asp	Ala	Ile	Ala	Ala	Asn	Glu	Glu
										485	490			495
Arg	Leu	Val	Ile	Ser	His	Glu	Gly	Asp	Pro	Ala	Trp	Arg	Ser	Ala
										500	505			510
Ile	Leu	Ser	Asn	Thr	Pro	Ser	Leu	Leu	Ala	Leu	Arg	His	Val	Leu
										515	520			525
Asp	Asp	Ala	Ser	Asp	Glu	Tyr	Lys	Ile	Ile	Met	Leu	Asn	Arg	Arg
										530	535			540
His	Leu	Ser	Phe	Arg	Val	Ile	Lys	Val	Asn	Arg	Glu	Cys	Val	Arg
										545	550			555
Gly	Leu	Trp	Ala	Gly	Gln	Gln	Glu	Leu	Val	Phe	Leu	Arg	Asn	
										560	565			570

Arg Asn Pro Glu Arg Gly Ser Ile Gln Asn Ala Lys Gln Ala Leu
 575 580 585
 Arg Asn Met Ile Asn Ser Ser Cys Asp Gln Pro Leu Gly Tyr Pro
 590 595 600
 Ile Tyr Val Ser Pro Leu Thr Thr Ser Leu Ala Gly Ser His Pro
 605 610 615
 Gln Leu Arg Ala Leu Trp Gly Gly Pro Ile Ser Leu Gly Ala Ile
 620 625 630
 Ala His Trp Leu Leu Arg Thr Trp Glu Arg Leu His Lys Gly Cys
 635 640 645
 Gly Ala Gly Cys Asn Ser Gly Gly Asn Val Asp Asp Ser Asp Cys
 650 655 660
 Ser Gly Gly Gly Leu Thr Ser Leu Ser Asn Asn Pro Pro Val
 665 670 675
 Ala His Pro Thr Pro Glu Asn Thr Ala Gly Asn Gly Asp Gln Pro
 680 685 690
 Leu Pro Pro Gly Pro Gly Trp Gly Pro Arg Ser Ser Leu Ser Gly
 695 700 705
 Ser Gly Asp Gly Arg Pro Pro Pro Leu Leu Gln Trp Pro Pro Pro
 710 715 720
 Arg Leu Pro Gly Pro Pro Pro Ala Ser Pro Ile Pro Thr Glu Gly
 725 730 735
 Pro Arg Thr Ser Arg Pro Pro Gly Pro Gly Leu Leu Ser Ser Glu
 740 745 750
 Gly Pro Ser Gly Lys Trp Ser Leu Gly Gly Arg Lys Gly Leu Gly
 755 760 765
 Gly Ser Asp Gly Glu Pro Ala Ser Gly Ser Pro Lys Gly Gly Thr
 770 775 780
 Pro Lys Ser Gln Val Arg His Leu Trp Glu Gly Trp Val Pro Glu
 785 790 795
 Gly

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 <223> Incyte ID No: 2888437CD1

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Met Lys Cys Leu Tyr Tyr Leu Tyr Ala Ser Leu Asp Pro Asn Ala
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 Val Lys Ala Leu Asn Glu Met Trp Lys Cys Gln Asn Met Leu Arg
 20 25 30
 Ile His Val Arg Glu Leu Leu Asp Leu His Lys Gln Pro Thr Ser
 35 40 45
 Glu Ala Asn Cys Ser Ala Met Phe Gly Lys Leu Met Thr Ile Ala
 50 55 60
 Lys Asn Leu Pro Asp Pro Gly Lys Ala Gln Asp Phe Val Lys Lys
 65 70 75
 Phe Asn Gln Val Leu Gly Asp Asp Glu Lys Leu Arg Ser Gln Leu

80	85	90												
Glu	Leu	Leu	Ile	Ser	Pro	Thr	Cys	Ser	Cys	Lys	Gln	Ala	Asp	Ile
95									100					105
Cys	Val	Arg	Glu	Ile	Ala	Arg	Lys	Leu	Ala	Asn	Pro	Lys	Gln	Pro
110									115					120
Thr	Asn	Pro	Phe	Leu	Glu	Met	Val	Lys	Phe	Leu	Leu	Glu	Arg	Ile
125									130					135
Ala	Pro	Val	His	Ile	Asp	Ser	Glu	Ala	Ile	Ser	Ala	Leu	Val	Lys
140									145					150
Leu	Met	Asn	Lys	Ser	Ile	Glu	Gly	Thr	Ala	Asp	Asp	Glu	Glu	Glu
155									160					165
Gly	Val	Ser	Pro	Asp	Thr	Ala	Ile	Arg	Ser	Gly	Leu	Glu	Leu	Leu
170									175					180
Lys	Val	Leu	Ser	Phe	Thr	His	Pro	Thr	Ser	Phe	His	Ser	Ala	Glu
185									190					195
Thr	Tyr	Glu	Ser	Leu	Leu	Gln	Cys	Leu	Arg	Met	Glu	Asp	Asp	Lys
200									205					210
Val	Ala	Glu	Ala	Ala	Ile	Gln	Ile	Phe	Arg	Asn	Thr	Gly	His	Lys
215									220					225
Ile	Glu	Thr	Asp	Leu	Pro	Gln	Ile	Arg	Ser	Thr	Leu	Ile	Pro	Ile
230									235					240
Leu	His	Gln	Lys	Ala	Lys	Arg	Gly	Thr	Pro	His	Gln	Ala	Lys	Gln
245									250					255
Ala	Val	His	Cys	Ile	His	Ala	Ile	Phe	Thr	Asn	Lys	Glu	Val	Gln
260									265					270
Leu	Ala	Gln	Ile	Phe	Glu	Pro	Leu	Ser	Arg	Ser	Leu	Asn	Ala	Asp
275									280					285
Val	Pro	Glu	Gln	Leu	Ile	Thr	Pro	Leu	Val	Ser	Leu	Gly	His	Ile
290									295					300
Ser	Met	Leu	Ala	Pro	Asp	Gln	Phe	Ala	Ser	Pro	Met	Lys	Ser	Val
305									310					315
Val	Ala	Asn	Phe	Ile	Val	Lys	Asp	Leu	Leu	Met	Asn	Asp	Arg	Ser
320									325					330
Thr	Gly	Glu	Lys	Asn	Gly	Lys	Leu	Trp	Ser	Pro	Asp	Glu	Glu	Val
335									340					345
Ser	Pro	Glu	Val	Leu	Ala	Lys	Val	Gln	Ala	Ile	Lys	Leu	Leu	Val
350									355					360
Arg	Trp	Leu	Leu	Gly	Met	Lys	Asn	Asn	Gln	Ser	Lys	Ser	Ala	Asn
365									370					375
Ser	Thr	Leu	Arg	Leu	Leu	Ser	Ala	Met	Leu	Val	Ser	Glu	Gly	Asp
380									385					390
Leu	Thr	Glu	Gln	Lys	Arg	Ile	Ser	Lys	Ser	Asp	Met	Ser	Arg	Leu
395									400					405
Arg	Leu	Ala	Ala	Gly	Ser	Ala	Ile	Met	Lys	Leu	Ala	Gln	Glu	Pro
410									415					420
Cys	Tyr	His	Glu	Ile	Ile	Thr	Pro	Glu	Gln	Phe	Gln	Leu	Cys	Ala
425									430					435
Leu	Val	Ile	Asn	Asp	Glu	Cys	Tyr	Gln	Val	Arg	Gln	Ile	Phe	Ala
440									445					450
Gln	Lys	Leu	His	Lys	Ala	Leu	Val	Lys	Leu	Leu	Leu	Pro	Leu	Glu
455									460					465
Tyr	Met	Ala	Ile	Phe	Ala	Leu	Cys	Ala	Lys	Asp	Pro	Val	Lys	Glu
470									475					480
Arg	Arg	Ala	His	Ala	Arg	Gln	Cys	Leu	Leu	Lys	Asn	Ile	Ser	Ile

485	490	495
Arg Arg Glu Tyr Ile Lys Gln Asn Pro Met Ala Thr Glu Lys Leu		
500	505	510
Leu Ser Leu Leu Pro Glu Tyr Val Val Pro Tyr Met Ile His Leu		
515	520	525
Leu Ala His Asp Pro Asp Phe Thr Arg Ser Gln Asp Val Asp Gln		
530	535	540
Leu Arg Asp Ile Lys Glu Cys Leu Trp Phe Met Leu Glu Val Leu		
545	550	555
Met Thr Lys Asn Glu Asn Asn Ser His Ala Phe Met Lys Lys Met		
560	565	570
Ala Glu Asn Ile Lys Leu Thr Arg Asp Ala Gln Ser Pro Asp Glu		
575	580	585
Ser Lys Thr Asn Glu Lys Leu Tyr Thr Val Cys Asp Val Ala Leu		
590	595	600
Cys Val Ile Asn Ser Lys Ser Ala Leu Cys Asn Ala Asp Ser Pro		
605	610	615
Lys Asp Pro Val Leu Pro Met Lys Phe Phe Thr Gln Pro Glu Lys		
620	625	630
Asp Phe Cys Asn Asp Lys Ser Tyr Ile Ser Glu Glu Thr Arg Val		
635	640	645
Leu Leu Leu Thr Gly Lys Pro Lys Pro Ala Gly Val Leu Gly Ala		
650	655	660
Val Asn Lys Pro Leu Ser Ala Thr Gly Arg Lys Pro Tyr Val Arg		
665	670	675
Ser Thr Gly Thr Glu Thr Gly Ser Asn Ile Asn Val Asn Ser Glu		
680	685	690
Leu Asn Pro Ser Thr Gly Asn Arg Ser Arg Glu Gln Ser Ser Glu		
695	700	705
Ala Ala Glu Thr Gly Val Ser Glu Asn Glu Glu Asn Pro Val Arg		
710	715	720
Ile Ile Ser Val Thr Pro Val Lys Asn Ile Asp Pro Val Lys Asn		
725	730	735
Lys Glu Ile Asn Ser Asp Gln Ala Thr Gln Gly Asn Ile Ser Ser		
740	745	750
Asp Arg Gly Lys Lys Arg Thr Val Thr Ala Ala Gly Ala Glu Asn		
755	760	765
Ile Gln Gln Lys Thr Asp Glu Lys Val Asp Glu Ser Gly Pro Pro		
770	775	780
Ala Pro Ser Lys Pro Arg Arg Gly Arg Arg Pro Lys Ser Glu Ser		
785	790	795
Gln Gly Asn Ala Thr Lys Asn Asp Asp Leu Asn Lys Pro Ile Asn		
800	805	810
Lys Gly Arg Lys Arg Ala Ala Val Gly Gln Glu Ser Pro Gly Gly		
815	820	825
Leu Glu Ala Gly Asn Ala Lys Ala Pro Lys Leu Gln Asp Leu Ala		
830	835	840
Lys Lys Ala Ala Pro Ala Glu Arg Gln Ile Asp Leu Gln Arg		
845	850	

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<211> 856

<212> PRT

<213> Homo sapiens

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1 5 10 15
Gly Lys Asn Gly Thr Leu Lys Pro Gly Asp Arg Ile Val Glu Val
20 25 30
Asp Gly Met Asp Leu Arg Asp Ala Ser His Glu Gln Ala Val Glu
35 40 45
Ala Ile Arg Lys Ala Gly Asn Pro Val Val Phe Met Val Gln Ser
50 55 60
Ile Ile Asn Arg Pro Arg Ala Pro Ser Gln Ser Glu Ser Glu Pro
65 70 75
Glu Lys Ala Pro Leu Cys Ser Val Pro Pro Pro Pro Ser Ala
80 85 90
Phe Ala Glu Met Gly Ser Asp His Thr Gln Ser Ser Ala Ser Lys
95 100 105
Ile Ser Gln Asp Val Asp Lys Glu Asp Glu Phe Gly Tyr Ser Trp
110 115 120
Lys Asn Ile Arg Glu Arg Tyr Gly Thr Leu Thr Gly Glu Leu His
125 130 135
Met Ile Glu Leu Glu Lys Gly His Ser Gly Leu Gly Leu Ser Leu
140 145 150
Ala Gly Asn Lys Asp Arg Ser Arg Met Ser Val Phe Ile Val Gly
155 160 165
Ile Asp Pro Asn Gly Ala Ala Gly Lys Asp Gly Arg Leu Gln Ile
170 175 180
Ala Asp Glu Leu Leu Glu Ile Asn Gly Gln Ile Leu Tyr Gly Arg
185 190 195
Ser His Gln Asn Ala Ser Ser Ile Ile Lys Cys Ala Pro Ser Lys
200 205 210
Val Lys Ile Ile Phe Ile Arg Asn Lys Asp Ala Val Asn Gln Met
215 220 225
Ala Val Cys Pro Gly Asn Ala Val Glu Pro Leu Pro Ser Asn Ser
230 235 240
Glu Asn Leu Gln Asn Lys Glu Thr Glu Pro Thr Val Thr Thr Ser
245 250 255
Asp Ala Ala Val Asp Leu Ser Ser Phe Lys Asn Val Gln His Leu
260 265 270
Glu Leu Pro Lys Asp Gln Gly Gly Leu Gly Ile Ala Ile Ser Glu
275 280 285
Glu Asp Thr Leu Ser Gly Val Ile Ile Lys Ser Leu Thr Glu His
290 295 300
Gly Val Ala Ala Thr Asp Gly Arg Leu Lys Val Gly Asp Gln Ile
305 310 315
Leu Ala Val Asp Asp Glu Ile Val Val Gly Tyr Pro Ile Glu Lys
320 325 330
Phe Ile Ser Leu Leu Lys Thr Ala Lys Met Thr Val Lys Leu Thr
335 340 345
Ile His Ala Glu Asn Pro Asp Ser Gln Ala Val Pro Ser Ala Ala
350 355 360

Gly Ala Ala Ser Gly Glu Lys Lys Asn Ser Ser Gln Ser Leu Met
 365 370 375
 Val Pro Gln Ser Gly Ser Pro Glu Pro Glu Ser Ile Arg Asn Thr
 380 385 390
 Ser Arg Ser Ser Thr Pro Ala Ile Phe Ala Ser Asp Pro Ala Thr
 395 400 405
 Cys Pro Ile Ile Pro Gly Cys Glu Thr Thr Ile Glu Ile Ser Lys
 410 415 420
 Gly Arg Thr Gly Leu Gly Leu Ser Ile Val Gly Gly Ser Asp Thr
 425 430 435
 Leu Leu Gly Ala Ile Ile Ile His Glu Val Tyr Glu Glu Gly Ala
 440 445 450
 Ala Cys Lys Asp Gly Arg Leu Trp Ala Gly Asp Gln Ile Leu Glu
 455 460 465
 Val Asn Gly Ile Asp Leu Arg Lys Ala Thr His Asp Glu Ala Ile
 470 475 480
 Asn Val Leu Arg Gln Thr Pro Gln Arg Val Arg Leu Thr Leu Tyr
 485 490 495
 Arg Asp Glu Ala Pro Tyr Lys Glu Glu Glu Val Cys Asp Thr Leu
 500 505 510
 Thr Ile Glu Leu Gln Lys Lys Pro Gly Lys Gly Leu Gly Leu Ser
 515 520 525
 Ile Val Gly Lys Arg Asn Asp Thr Gly Val Phe Val Ser Asp Ile
 530 535 540
 Val Lys Gly Gly Ile Ala Asp Ala Asp Gly Arg Leu Met Gln Gly
 545 550 555
 Asp Gln Ile Leu Met Val Asn Gly Glu Asp Val Arg Asn Ala Thr
 560 565 570
 Gln Glu Ala Val Ala Ala Leu Leu Lys Cys Ser Leu Gly Thr Val
 575 580 585
 Thr Leu Glu Val Gly Arg Ile Lys Ala Gly Pro Phe His Ser Glu
 590 595 600
 Arg Arg Pro Ser Gln Ser Ser Gln Val Ser Glu Gly Ser Leu Ser
 605 610 615
 Ser Phe Thr Phe Pro Leu Ser Gly Ser Ser Thr Ser Glu Ser Leu
 620 625 630
 Glu Ser Ser Ser Lys Lys Asn Ala Leu Ala Ser Glu Ile Gln Gly
 635 640 645
 Leu Arg Thr Val Glu Met Lys Lys Gly Pro Thr Asp Ser Leu Gly
 650 655 660
 Ile Ser Ile Ala Gly Gly Val Gly Ser Pro Leu Gly Asp Val Pro
 665 670 675
 Ile Phe Ile Ala Met Met His Pro Thr Gly Val Ala Ala Gln Thr
 680 685 690
 Gln Lys Leu Arg Val Gly Asp Arg Ile Val Thr Ile Cys Gly Thr
 695 700 705
 Ser Thr Glu Gly Met Thr His Thr Gln Ala Val Asn Leu Leu Lys
 710 715 720
 Asn Ala Ser Gly Ser Ile Glu Met Gln Val Val Ala Gly Gly Asp
 725 730 735
 Val Ser Val Val Thr Gly His Gln Gln Glu Pro Ala Ser Ser Ser
 740 745 750
 Leu Ser Phe Thr Gly Leu Thr Ser Ser Ile Phe Gln Asp Asp
 755 760 765

Leu Gly Pro Pro Gln Cys Lys Ser Ile Thr Leu Glu Arg Gly Pro
 770 775 780
 Asp Gly Leu Gly Phe Ser Ile Val Gly Gly Tyr Gly Ser Pro His
 785 790 795
 Gly Asp Leu Pro Ile Tyr Val Lys Thr Val Phe Ala Lys Gly Ala
 800 805 810
 Ala Ser Glu Asp Gly Arg Leu Lys Arg Gly Asp Gln Ile Ile Ala
 815 820 825
 Val Asn Gly Gln Ser Leu Glu Gly Val Thr His Glu Glu Ala Val
 830 835 840
 Ala Ile Leu Lys Arg Thr Lys Gly Thr Val Thr Leu Met Val Leu
 845 850 855
 Ser

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 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 3800639CD1

<400> 13

Met	Glu	Thr	Gly	Ala	Ala	Glu	Leu	Tyr	Asp	Gln	Ala	Leu	Leu	Gly
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Ile	Leu	Gln	His	Val	Gly	Asn	Val	Gln	Asp	Phe	Leu	Arg	Val	Leu
														30
Phe	Gly	Phe	Leu	Tyr	Arg	Lys	Thr	Asp	Phe	Tyr	Arg	Leu	Leu	Arg
														45
His	Pro	Ser	Asp	Arg	Met	Gly	Phe	Pro	Pro	Gly	Ala	Ala	Gln	Ala
														60
Leu	Val	Leu	Gln	Val	Phe	Lys	Thr	Phe	Asp	His	Met	Ala	Arg	Gln
														75
Asp	Asp	Glu	Lys	Arg	Arg	Gln	Glu	Leu	Glu	Glu	Lys	Ile	Arg	Arg
														90
Lys	Glu	Glu	Glu	Ala	Lys	Thr	Val	Ser	Ala	Ala	Ala	Ala	Glu	
														105
Lys	Glu	Pro	Val	Pro	Val	Pro	Val	Gln	Glu	Ile	Glu	Ile	Asp	Ser
														120
Thr	Thr	Glu	Leu	Asp	Gly	His	Gln	Glu	Val	Glu	Lys	Val	Gln	Pro
														135
Pro	Gly	Pro	Val	Lys	Glu	Met	Ala	His	Gly	Ser	Gln	Glu	Ala	Glu
														150
Ala	Pro	Gly	Ala	Val	Ala	Gly	Ala	Ala	Glu	Val	Pro	Arg	Glu	Pro
														165
Pro	Ile	Leu	Pro	Arg	Ile	Gln	Glu	Gln	Phe	Gln	Lys	Asn	Pro	Asp
														180
Ser	Tyr	Asn	Gly	Ala	Val	Arg	Glu	Asn	Tyr	Thr	Trp	Ser	Gln	Asp
														195
Tyr	Thr	Asp	Leu	Glu	Val	Arg	Val	Pro	Val	Pro	Lys	His	Val	Val
														210
Lys	Gly	Lys	Gln	Val	Ser	Val	Ala	Leu	Ser	Ser	Ser	Ser	Ile	Arg

	215	220	225											
Val	Ala	Met	Leu	Glu	Glu	Asn	Gly	Glu	Arg	Val	Leu	Met	Glu	Gly
				230				235					240	
Lys	Leu	Thr	His	Lys	Ile	Asn	Thr	Glu	Ser	Ser	Leu	Trp	Ser	Leu
				245				250					255	
Glu	Pro	Gly	Lys	Cys	Val	Leu	Val	Asn	Leu	Ser	Lys	Val	Gly	Glu
				260				265					270	
Tyr	Trp	Trp	Asn	Ala	Ile	Leu	Glu	Gly	Glu	Glu	Pro	Ile	Asp	Ile
				275				280					285	
Asp	Lys	Ile	Asn	Lys	Glu	Arg	Ser	Met	Ala	Thr	Val	Asp	Glu	Glu
				290				295					300	
Glu	Gln	Ala	Val	Leu	Asp	Arg	Leu	Thr	Phe	Asp	Tyr	His	Gln	Lys
				305				310					315	
Leu	Gln	Gly	Lys	Pro	Gln	Ser	His	Glu	Leu	Lys	Val	His	Glu	Met
				320				325					330	
Leu	Lys	Lys	Gly	Trp	Asp	Ala	Glu	Gly	Ser	Pro	Phe	Arg	Gly	Gln
				335				340					345	
Arg	Phe	Asp	Pro	Ala	Met	Phe	Asn	Ile	Ser	Pro	Gly	Ala	Val	Gln
				350				355					360	
Phe														

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Met	Lys	Ala	Leu	Leu	Leu	Leu	Val	Leu	Pro	Trp	Leu	Ser	Pro	Ala
1				5				10					15	
Asn	Tyr	Ile	Asp	Asn	Val	Gly	Asn	Leu	His	Phe	Leu	Tyr	Ser	Glu
				20				25					30	
Leu	Cys	Lys	Gly	Ala	Ser	His	Tyr	Gly	Leu	Thr	Lys	Asp	Arg	Lys
				35				40					45	
Arg	Arg	Ser	Gln	Asp	Gly	Cys	Pro	Asp	Gly	Cys	Ala	Ser	Leu	Thr
				50				55					60	
Ala	Thr	Ala	Pro	Ser	Pro	Glu	Val	Ser	Ala	Ala	Ala	Thr	Ile	Ser
				65				70					75	
Leu	Met	Thr	Asp	Glu	Pro	Gly	Leu	Asp	Asn	Pro	Ala	Tyr	Val	Ser
				80				85					90	
Ser	Ala	Glu	Asp	Gly	Gln	Pro	Ala	Ile	Ser	Pro	Val	Asp	Ser	Gly
				95				100					105	
Arg	Ser	Asn	Arg	Thr	Arg	Ala	Arg	Pro	Phe	Glu	Arg	Ser	Thr	Ile
				110				115					120	
Arg	Ser	Arg	Ser	Phe	Lys	Lys	Ile	Asn	Arg	Ala	Leu	Ser	Val	Leu
				125				130					135	
Arg	Arg	Thr	Lys	Ser	Gly	Ser	Ala	Val	Ala	Asn	His	Ala	Asp	Gln
				140				145					150	
Gly	Arg	Glu	Asn	Ser	Glu	Asn	Ile	Thr	Ala	Pro	Glu	Val	Phe	Pro
				155				160					165	

Arg	Leu	Tyr	His	Leu	Ile	Pro	Asp	Gly	Glu	Ile	Thr	Ser	Ile	Lys
				170					175					180
Ile	Asn	Arg	Val	Asp	Pro	Ser	Glu	Ser	Leu	Ser	Ile	Arg	Leu	Val
				185					190					195
Gly	Gly	Ser	Glu	Thr	Pro	Leu	Val	His	Ile	Ile	Ile	Gln	His	Ile
				200					205					210
Tyr	Arg	Asp	Gly	Val	Ile	Ala	Arg	Asp	Gly	Arg	Leu	Leu	Pro	Gly
				215					220					225
Asp	Ile	Ile	Leu	Lys	Val	Asn	Gly	Met	Asp	Ile	Ser	Asn	Val	Pro
				230					235					240
His	Asn	Tyr	Ala	Val	Arg	Leu	Leu	Arg	Gln	Pro	Cys	Gln	Val	Leu
				245					250					255
Trp	Leu	Thr	Val	Met	Arg	Glu	Gln	Lys	Phe	Arg	Ser	Arg	Asn	Asn
				260					265					270
Gly	Gln	Ala	Pro	Asp	Ala	Tyr	Arg	Pro	Arg	Asp	Asp	Ser	Phe	His
				275					280					285
Val	Ile	Leu	Asn	Lys	Ser	Ser	Pro	Glu	Glu	Gln	Leu	Gly	Ile	Lys
				290					295					300
Leu	Val	Arg	Lys	Val	Asp	Glu	Pro	Gly	Val	Phe	Ile	Phe	Asn	Val
				305					310					315
Leu	Asp	Gly	Gly	Val	Ala	Tyr	Arg	His	Gly	Gln	Leu	Glu	Glu	Asn
				320					325					330
Asp	Arg	Val	Leu	Ala	Ile	Asn	Gly	His	Asp	Leu	Arg	Tyr	Gly	Ser
				335					340					345
Pro	Glu	Ser	Ala	Ala	His	Leu	Ile	Gln	Ala	Ser	Glu	Arg	Arg	Val
				350					355					360
His	Leu	Val	Val	Ser	Arg	Gln	Val	Arg	Gln	Arg	Ser	Pro	Asp	Ile
				365					370					375
Phe	Gln	Glu	Ala	Gly	Trp	Asn	Ser	Asn	Gly	Ser	Trp	Ser	Pro	Gly
				380					385					390
Pro	Gly	Glu	Arg	Ser	Asn	Thr	Pro	Lys	Pro	Leu	His	Pro	Thr	Ile
				395					400					405
Thr	Cys	His	Glu	Lys	Val	Val	Asn	Ile	Gln	Lys	Asp	Pro	Gly	Glu
				410					415					420
Ser	Leu	Gly	Met	Ala	Val	Ala	Gly	Gly	Ala	Ser	His	Arg	Glu	Trp
				425					430					435
Asp	Leu	Pro	Ile	Tyr	Val	Ile	Ser	Val	Glu	Pro	Gly	Gly	Val	Ile
				440					445					450
Ser	Arg	Asp	Gly	Arg	Ile	Lys	Thr	Gly	Asp	Ile	Leu	Leu	Asn	Val
				455					460					465
Asp	Gly	Val	Glu	Leu	Thr	Glu	Val	Ser	Arg	Ser	Glu	Ala	Val	Ala
				470					475					480
Leu	Leu	Lys	Arg	Thr	Ser	Ser	Ile	Val	Leu	Lys	Ala	Leu	Glu	
				485					490					495
Val	Lys	Glu	Tyr	Glu	Pro	Gln	Glu	Asp	Cys	Ser	Ser	Pro	Ala	Ala
				500					505					510
Leu	Asp	Ser	Asn	His	Asn	Met	Ala	Pro	Pro	Ser	Asp	Trp	Ser	Pro
				515					520					525
Ser	Trp	Val	Met	Trp	Leu	Glu	Leu	Pro	Arg	Cys	Leu	Tyr	Asn	Cys
				530					535					540
Lys	Asp	Ile	Val	Leu	Arg	Arg	Asn	Thr	Ala	Gly	Ser	Leu	Gly	Phe
				545					550					555
Cys	Ile	Val	Gly	Gly	Tyr	Glu	Glu	Tyr	Asn	Gly	Asn	Lys	Pro	Phe
				560					565					570

Phe	Ile	Lys	Ser	Ile	Val	Glu	Gly	Thr	Pro	Ala	Tyr	Asn	Asp	Gly
				575				580						585
Arg	Ile	Arg	Cys	Gly	Asp	Ile	Leu	Leu	Ala	Val	Asn	Gly	Arg	Ser
				590				595						600
Thr	Ser	Gly	Met	Ile	His	Ala	Cys	Leu	Ala	Arg	Leu	Leu	Lys	Glu
				605				610						615
Leu	Lys	Gly	Arg	Ile	Thr	Leu	Thr	Ile	Val	Ser	Trp	Pro	Gly	Thr
				620				625						630
Phe	Leu													

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Met	Lys	Met	Lys	Ile	Gln	Lys	Lys	Glu	Lys	Gln	Leu	Ser	Asn	Leu
1				5				10						15
Lys	Val	Leu	Asn	His	Ser	Pro	Met	Ser	Asp	Ala	Ser	Val	Asn	Phe
				20				25						30
Asp	Tyr	Lys	Ser	Pro	Ser	Pro	Phe	Asp	Cys	Ser	Thr	Asp	Gln	Glu
				35				40						45
Glu	Lys	Ile	Glu	Asp	Val	Ala	Ser	His	Cys	Leu	Pro	Gln	Lys	Asp
				50				55						60
Leu	Tyr	Thr	Ala	Glu	Glu	Glu	Ala	Ala	Thr	Leu	Phe	Pro	Arg	Lys
				65				70						75
Met	Thr	Ser	His	Asn	Gly	Met	Glu	Asp	Ser	Gly	Gly	Gly	Gly	Thr
				80				85						90
Gly	Val	Lys	Lys	Lys	Arg	Lys	Lys	Glu	Pro	Gly	Asp	Gln	Glu	
				95				100						105
Gly	Ala	Ala	Lys	Gly	Ser	Lys	Asp	Arg	Glu	Pro	Lys	Pro	Lys	Arg
				110				115						120
Lys	Arg	Glu	Pro	Lys	Glu	Pro	Lys	Glu	Pro	Arg	Lys	Ala	Lys	Glu
				125				130						135
Pro	Lys	Lys	Ala	Lys	Glu	His	Lys	Glu	Pro	Lys	Gln	Lys	Asp	Gly
				140				145						150
Ala	Lys	Lys	Ala	Arg	Lys	Pro	Arg	Glu	Ala	Ser	Gly	Thr	Lys	Glu
				155				160						165
Ala	Lys	Glu	Lys	Arg	Ser	Cys	Thr	Asp	Ser	Ala	Ala	Arg	Thr	Lys
				170				175						180
Ser	Arg	Lys	Ala	Ser	Lys	Glu	Gln	Gly	Pro	Thr	Pro	Val	Glu	Lys
				185				190						195
Lys	Lys	Lys	Gly	Lys	Arg	Lys	Ser	Glu	Thr	Thr	Val	Glu	Ser	Leu
				200				205						210
Glu	Leu	Asp	Gln	Gly	Leu	Thr	Asn	Pro	Ser	Leu	Arg	Ser	Pro	Glu
				215				220						225
Glu	Ser	Thr	Glu	Ser	Thr	Asp	Ser	Gln	Lys	Arg	Arg	Ser	Gly	Arg
				230				235						240
Gln	Val	Lys	Arg	Arg	Lys	Tyr	Asn	Glu	Asp	Leu	Asp	Phe	Lys	Val

245	250	255
Val Asp Asp Asp Gly Glu Thr Ile Ala Val	Leu Gly Ala Gly	Arg
260	265	270
Thr Ser Ala Leu Ser Ala Ser Thr Leu Ala	Trp Gln Ala Glu	Glu
275	280	285
Pro Pro Glu Asp Asp Ala Asn Ile Ile	Glu Lys Ile Leu Ala	Ser
290	295	300
Lys Thr Val Gln Glu Val His Pro Gly	Glu Pro Pro Phe Asp	Leu
305	310	315
Glu Leu Phe Tyr Val Lys Tyr Arg Asn	Phe Ser Tyr Leu His	Cys
320	325	330
Lys Trp Ala Thr Met Glu Glu Leu Glu	Lys Asp Pro Arg Ile	Ala
335	340	345
Gln Lys Ile Lys Arg Phe Arg Asn Lys	Gln Ala Gln Met Lys	His
350	355	360
Ile Phe Thr Glu Val Lys Gln Tyr Leu	Leu Thr His Leu Thr	Ala
365	370	375
Ala Phe Leu Ala Ala Val Asn Thr Val	Phe Thr Phe Leu Ser	Pro
380	385	390

Ser

<210> 16
<211> 490
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1342819CD1

<400> 16		
Met Glu Asp Ser Ala Ser Ala Ser Leu Ser	Ser Ala Ala Ala Thr	
1	5	10
Gly Thr Ser Thr Ser Thr Pro Ala Ala	Pro Thr Ala Arg Lys	Gln
20	25	30
Leu Asp Lys Glu Gln Val Arg Lys Ala Val	Asp Ala Leu Leu	Thr
35	40	45
His Cys Lys Ser Arg Lys Asn Asn Tyr	Gly Leu Leu Leu Asn	Glu
50	55	60
Asn Glu Ser Leu Phe Leu Met Val Val	Leu Trp Lys Ile Pro	Ser
65	70	75
Lys Glu Leu Arg Val Arg Leu Thr Leu	Pro His Ser Ile Arg	Ser
80	85	90
Asp Ser Glu Asp Ile Cys Leu Phe Thr	Lys Asp Glu Pro Asn	Ser
95	100	105
Thr Pro Glu Lys Thr Glu Gln Phe Tyr	Arg Lys Leu Leu Asn	Lys
110	115	120
His Gly Ile Lys Thr Val Ser Gln Ile	Ile Ser Leu Gln Thr	Leu
125	130	135
Lys Lys Glu Tyr Lys Ser Tyr Glu Ala	Lys Leu Arg Leu	Leu
140	145	150
Ser Phe Asp Phe Phe Leu Thr Asp Ala	Arg Ile Arg Arg	Leu
155	160	165

Pro	Ser	Leu	Ile	Gly	Arg	His	Phe	Tyr	Gln	Arg	Lys	Lys	Val	Pro
170									175					180
Val	Ser	Val	Asn	Leu	Leu	Ser	Lys	Asn	Leu	Ser	Arg	Glu	Ile	Asn
185									190					195
Asp	Cys	Ile	Gly	Gly	Thr	Val	Leu	Asn	Ile	Ser	Lys	Ser	Gly	Ser
200									205					210
Cys	Ser	Ala	Ile	Arg	Ile	Gly	His	Val	Gly	Met	Gln	Ile	Glu	His
215									220					225
Ile	Ile	Glu	Asn	Ile	Val	Ala	Val	Thr	Lys	Gly	Leu	Ser	Glu	Lys
230									235					240
Leu	Pro	Glu	Lys	Trp	Glu	Ser	Val	Lys	Leu	Leu	Phe	Val	Lys	Thr
245									250					255
Glu	Lys	Ser	Ala	Ala	Leu	Pro	Ile	Phe	Ser	Ser	Phe	Val	Ser	Asn
260									265					270
Trp	Asp	Glu	Ala	Thr	Lys	Arg	Ser	Leu	Leu	Asn	Lys	Lys	Lys	Lys
275									280					285
Glu	Ala	Arg	Arg	Lys	Arg	Arg	Glu	Arg	Asn	Phe	Glu	Lys	Gln	Lys
290									295					300
Glu	Arg	Lys	Lys	Lys	Arg	Gln	Gln	Ala	Arg	Lys	Thr	Ala	Ser	Val
305									310					315
Leu	Ser	Lys	Asp	Asp	Val	Ala	Pro	Glu	Ser	Gly	Asp	Thr	Thr	Val
320									325					330
Lys	Lys	Pro	Glu	Ser	Lys	Lys	Glu	Gln	Thr	Pro	Glu	His	Gly	Lys
335									340					345
Lys	Lys	Arg	Gly	Arg	Gly	Lys	Ala	Gln	Val	Lys	Ala	Thr	Asn	Glu
350									355					360
Ser	Glu	Asp	Glu	Ile	Pro	Gln	Leu	Val	Pro	Ile	Gly	Lys	Lys	Thr
365									370					375
Pro	Ala	Asn	Glu	Lys	Val	Glu	Ile	Gln	Lys	His	Ala	Thr	Gly	Lys
380									385					390
Lys	Ser	Pro	Ala	Lys	Ser	Pro	Asn	Pro	Ser	Thr	Pro	Arg	Gly	Lys
395									400					405
Lys	Arg	Lys	Ala	Leu	Pro	Ala	Ser	Glu	Thr	Pro	Lys	Ala	Ala	Glu
410									415					420
Ser	Glu	Thr	Pro	Gly	Lys	Ser	Pro	Glu	Lys	Lys	Pro	Lys	Ile	Lys
425									430					435
Glu	Glu	Ala	Val	Lys	Glu	Lys	Ser	Pro	Ser	Leu	Gly	Lys	Lys	Asp
440									445					450
Ala	Arg	Gln	Thr	Pro	Lys	Lys	Pro	Glu	Ala	Lys	Phe	Phe	Thr	Thr
455									460					465
Pro	Ser	Lys	Ser	Val	Arg	Lys	Ala	Ser	His	Thr	Pro	Lys	Lys	Trp
470									475					480
Pro	Lys	Lys	Pro	Lys	Val	Pro	Gln	Ser	Thr					
485									490					

<210> 17
 <211> 252
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1871288CD1

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<400> 17

Met	Ala	Glu	Leu	Glu	Phe	Val	Gln	Ile	Ile	Ile	Ile	Val	Val	Val
1									10					15
Met	Met	Val	Met	Val	Val	Val	Ile	Thr	Cys	Leu	Leu	Ser	His	Tyr
									25					30
Lys	Leu	Ser	Ala	Arg	Ser	Phe	Ile	Ser	Arg	His	Ser	Gln	Gly	Arg
									40					45
Arg	Arg	Glu	Asp	Ala	Leu	Ser	Ser	Glu	Gly	Cys	Leu	Trp	Pro	Ser
									55					60
Glu	Ser	Thr	Val	Ser	Gly	Asn	Gly	Ile	Pro	Glu	Pro	Gln	Val	Tyr
									70					75
Ala	Pro	Pro	Arg	Pro	Thr	Asp	Arg	Leu	Ala	Val	Pro	Pro	Phe	Ala
									85					90
Gln	Arg	Glu	Arg	Phe	His	Arg	Phe	Gln	Pro	Thr	Tyr	Pro	Tyr	Leu
									100					105
Gln	His	Glu	Ile	Asp	Leu	Pro	Pro	Thr	Ile	Ser	Leu	Ser	Asp	Gly
									115					120
Glu	Glu	Pro	Pro	Pro	Tyr	Gln	Gly	Pro	Cys	Thr	Leu	Gln	Leu	Arg
									130					135
Asp	Pro	Glu	Gln	Gln	Leu	Glu	Leu	Asn	Arg	Glu	Ser	Val	Arg	Ala
									145					150
Pro	Pro	Asn	Arg	Thr	Ile	Phe	Asp	Ser	Asp	Leu	Met	Asp	Ser	Ala
									160					165
Arg	Leu	Gly	Gly	Pro	Cys	Pro	Pro	Ser	Ser	Asn	Ser	Gly	Ile	Ser
									175					180
Ala	Thr	Cys	Tyr	Gly	Ser	Gly	Gly	Arg	Met	Glu	Gly	Pro	Pro	Pro
									185					195
Thr	Tyr	Ser	Glu	Val	Ile	Gly	His	Tyr	Pro	Gly	Ser	Ser	Phe	Gln
									200					210
His	Gln	Gln	Ser	Ser	Gly	Pro	Pro	Ser	Leu	Leu	Glu	Gly	Thr	Arg
									215					225
Leu	His	His	Thr	His	Ile	Ala	Pro	Leu	Glu	Ser	Ala	Ala	Ile	Trp
									230					240
Ser	Lys	Glu	Lys	Asp	Lys	Gln	Lys	Gly	His	Pro	Leu			
									245					250

<210> 18

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2587338CD1

<400> 18

Met	Glu	Ser	Ala	Arg	Glu	Asn	Ile	Asp	Leu	Gln	Pro	Gly	Ser	Ser
1									10					15
Asp	Pro	Arg	Ser	Gln	Pro	Ile	Asn	Leu	Asn	His	Tyr	Ala	Thr	Lys
									25					30
Lys	Ser	Val	Ala	Glu	Ser	Met	Leu	Asp	Val	Ala	Leu	Phe	Met	Ser
									35					45
Asn	Ala	Met	Arg	Leu	Lys	Ala	Val	Leu	Glu	Gln	Gly	Pro	Ser	Ser
									50					60

His	Tyr	Tyr	Thr	Thr	Leu	Val	Thr	Leu	Ile	Ser	Leu	Ser	Leu	Leu
					65				70					75
Leu	Gln	Val	Val	Ile	Gly	Val	Leu	Leu	Val	Val	Ile	Ala	Arg	Leu
					80				85					90
Asn	Leu	Asn	Glu	Val	Glu	Lys	Gln	Trp	Arg	Leu	Asn	Gln	Leu	Asn
					95				100					105
Asn	Gly	Ser	His	Ile	Leu	Val	Phe	Phe	Thr	Val	Val	Ile	Asn	Gly
					110				115					120
Phe	Ile	Thr	Gly	Phe	Gly	Ala	His	Lys	Thr	Arg	Val	Leu	Ala	Cys
					125				130					135
Gln	Asp	Ser	Arg	Asn	Pro	Leu								
					140									

<210> 19

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2821211CD1

<400> 19

Met	Glu	Ile	Ile	Glu	Asn	Ser	Phe	His	Ile	Asn	Gly	Leu	Lys	Ile
1				5					10					15
Asn	Gln	Arg	Thr	Leu	Cys	Val	His	Val	Cys	Ile	Ser	Ala	His	Arg
					20				25					30
Asn	Ile	Tyr	Thr	Tyr	Val	Asp	Tyr	Ile	His	Val	Cys	Ile	Tyr	Val
					35				40					45
Tyr	Ile	Tyr	Ile	His	Leu	Tyr	Lys	Cys	Ile	Tyr	Thr	Tyr	Thr	Tyr
					50				55					60
Asn	Val	Cys	Met	Cys	Ile	Tyr								
					65									

<210> 20

<211> 455

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2824832CD1

<400> 20

Met	Phe	Gln	Phe	His	Ala	Gly	Ser	Trp	Glu	Ser	Trp	Cys	Cys	Cys
1				5					10					15
Cys	Leu	Ile	Pro	Ala	Asp	Arg	Pro	Trp	Asp	Arg	Gly	Gln	His	Trp
					20				25					30
Gln	Leu	Glu	Met	Ala	Asp	Thr	Arg	Ser	Val	His	Glu	Thr	Arg	Phe
					35				40					45
Glu	Ala	Ala	Val	Lys	Val	Ile	Gln	Ser	Leu	Pro	Lys	Asn	Gly	Ser
					50				55					60
Phe	Gln	Pro	Thr	Asn	Glu	Met	Met	Leu	Lys	Phe	Tyr	Ser	Phe	Tyr
					65				70					75

Lys	Gln	Ala	Thr	Glu	Gly	Pro	Cys	Lys	Leu	Ser	Arg	Pro	Gly	Phe
				80				85						90
Trp	Asp	Pro	Ile	Gly	Arg	Tyr	Lys	Trp	Asp	Ala	Trp	Ser	Ser	Leu
				95				100						105
Gly	Asp	Met	Thr	Lys	Glu	Glu	Ala	Met	Ile	Ala	Tyr	Val	Glu	Glu
				110				115						120
Met	Lys	Lys	Ile	Ile	Glu	Thr	Met	Pro	Met	Thr	Glu	Lys	Val	Glu
				125				130						135
Glu	Leu	Leu	Arg	Val	Ile	Gly	Pro	Phe	Tyr	Glu	Ile	Val	Glu	Asp
				140				145						150
Lys	Lys	Ser	Gly	Arg	Ser	Ser	Asp	Ile	Thr	Ser	Asp	Leu	Gly	Asn
				155				160						165
Val	Leu	Thr	Ser	Thr	Pro	Asn	Ala	Lys	Thr	Val	Asn	Gly	Lys	Ala
				170				175						180
Glu	Ser	Ser	Asp	Ser	Gly	Ala	Glu	Ser	Glu	Glu	Glu	Ala	Gln	
				185				190						195
Glu	Glu	Val	Lys	Gly	Ala	Glu	Gln	Ser	Asp	Asn	Asp	Ile	Asn	Asp
				200				205						210
Asp	His	Val	Glu	Asp	Val	Thr	Gly	Ile	Gln	His	Leu	Thr	Ser	Asp
				215				220						225
Ser	Asp	Ser	Glu	Val	Tyr	Cys	Asp	Ser	Met	Glu	Gln	Phe	Gly	Gln
				230				235						240
Glu	Glu	Ser	Leu	Asp	Ser	Phe	Thr	Ser	Asn	Asn	Gly	Pro	Phe	Gln
				245				250						255
Tyr	Tyr	Leu	Gly	Gly	His	Ser	Ser	Gln	Pro	Met	Glu	Asn	Ser	Gly
				260				265						270
Phe	Arg	Glu	Asp	Ile	Gln	Val	Pro	Pro	Gly	Asn	Gly	Asn	Ile	Gly
				275				280						285
Asn	Met	Gln	Val	Val	Ala	Val	Glu	Gly	Lys	Gly	Glu	Val	Lys	His
				290				295						300
Gly	Gly	Glu	Asp	Gly	Arg	Asn	Asn	Ser	Gly	Ala	Pro	His	Arg	Glu
				305				310						315
Lys	Arg	Gly	Gly	Glu	Thr	Asp	Glu	Phe	Ser	Asn	Val	Arg	Arg	Gly
				320				325						330
Arg	Gly	His	Arg	Met	Gln	His	Leu	Ser	Glu	Gly	Thr	Lys	Gly	Arg
				335				340						345
Gln	Val	Gly	Ser	Gly	Gly	Asp	Gly	Glu	Arg	Trp	Gly	Ser	Asp	Arg
				350				355						360
Gly	Ser	Arg	Gly	Ser	Leu	Asn	Glu	Gln	Ile	Ala	Leu	Val	Leu	Met
				365				370						375
Arg	Leu	Gln	Glu	Asp	Met	Gln	Asn	Val	Leu	Gln	Arg	Leu	Gln	Lys
				380				385						390
Leu	Glu	Thr	Leu	Thr	Ala	Leu	Gln	Ala	Lys	Ser	Ser	Thr	Ser	Thr
				395				400						405
Leu	Gln	Thr	Ala	Pro	Gln	Pro	Thr	Ser	Gln	Arg	Pro	Ser	Trp	Trp
				410				415						420
Pro	Phe	Glu	Met	Ser	Pro	Gly	Val	Leu	Thr	Phe	Ala	Ile	Ile	Trp
				425				430						435
Pro	Phe	Ile	Ala	Gln	Trp	Leu	Val	Tyr	Leu	Tyr	Tyr	Gln	Arg	Arg
				440				445						450
Arg	Arg	Lys	Leu	Asn										
				455										

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<211> 252

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3070147CD1

<400> 21

Met	Gln	Leu	Thr	Arg	Cys	Cys	Phe	Val	Phe	Leu	Val	Gln	Gly	Ser
1		5						10				15		
Leu	Tyr	Leu	Val	Ile	Cys	Gly	Gln	Asp	Asp	Gly	Pro	Pro	Gly	Ser
				20					25				30	
Glu	Asp	Pro	Glu	Arg	Asp	Asp	His	Glu	Gly	Gln	Pro	Arg	Pro	Arg
				35					40			45		
Val	Pro	Arg	Lys	Arg	Gly	His	Ile	Ser	Pro	Lys	Ser	Arg	Pro	Met
				50					55			60		
Ala	Asn	Ser	Thr	Leu	Leu	Gly	Leu	Leu	Ala	Pro	Thr	Gly	Glu	Ala
				65					70			75		
Trp	Gly	Ile	Leu	Gly	Gln	Pro	Pro	Asn	Arg	Pro	Asn	His	Ser	Pro
				80					85			90		
Pro	Pro	Ser	Ala	Lys	Val	Lys	Lys	Ile	Phe	Gly	Trp	Gly	Asp	Phe
				95					100			105		
Tyr	Ser	Asn	Ile	Lys	Thr	Val	Ala	Leu	Asn	Leu	Leu	Val	Thr	Gly
				110					115			120		
Lys	Ile	Val	Asp	His	Gly	Asn	Gly	Thr	Phe	Ser	Val	His	Phe	Gln
				125					130			135		
His	Asn	Ala	Thr	Gly	Gln	Gly	Asn	Ile	Ser	Ile	Ser	Leu	Val	Pro
				140					145			150		
Pro	Ser	Lys	Ala	Val	Glu	Phe	His	Gln	Glu	Gln	Gln	Ile	Phe	Ile
				155					160			165		
Glu	Ala	Lys	Ala	Ser	Lys	Ile	Phe	Asn	Cys	Arg	Met	Glu	Trp	Glu
				170					175			180		
Lys	Val	Glu	Arg	Gly	Arg	Arg	Thr	Ser	Leu	Cys	Thr	His	Asp	Pro
				185					190			195		
Ala	Lys	Ile	Cys	Ser	Arg	Asp	His	Ala	Gln	Ser	Ser	Ala	Thr	Trp
				200					205			210		
Ser	Cys	Ser	Gln	Pro	Phe	Lys	Val	Val	Cys	Val	Tyr	Ile	Ala	Phe
				215					220			225		
Tyr	Ser	Thr	Asp	Tyr	Arg	Leu	Val	Gln	Lys	Val	Cys	Pro	Asp	Tyr
				230					235			240		
Asn	Tyr	His	Ser	Asp	Thr	Pro	Tyr	Tyr	Pro	Ser	Gly			
				245					250					

<210> 22

<211> 149

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3271841CD1

<400> 22

Met	Glu	Ser	Arg	Gly	Lys	Ser	Ala	Ser	Ser	Pro	Lys	Pro	Asp	Thr
1				5					10					15
Lys	Val	Pro	Gln	Val	Thr	Thr	Glu	Ala	Lys	Val	Pro	Pro	Ala	Ala
					20				25					30
Asp	Gly	Lys	Ala	Pro	Leu	Thr	Lys	Pro	Ser	Lys	Lys	Glu	Ala	Pro
						35			40					45
Ala	Glu	Lys	Gln	Gln	Pro	Pro	Ala	Ala	Pro	Thr	Thr	Ala	Pro	Ala
					50				55					60
Lys	Lys	Thr	Ser	Ala	Lys	Ala	Asp	Pro	Ala	Leu	Leu	Asn	Asn	His
					65				70					75
Ser	Asn	Leu	Lys	Pro	Ala	Pro	Thr	Val	Pro	Ser	Ser	Pro	Asp	Ala
					80				85					90
Thr	Pro	Glu	Pro	Lys	Gly	Pro	Gly	Asp	Gly	Ala	Glu	Glu	Asp	Glu
					95				100					105
Ala	Ala	Ser	Gly	Gly	Pro	Gly	Gly	Arg	Gly	Pro	Trp	Ser	Cys	Glu
					110				115					120
Asn	Phe	Asn	Pro	Leu	Leu	Val	Ala	Gly	Gly	Val	Ala	Val	Ala	Ala
					125				130					135
Ile	Ala	Leu	Ile	Leu	Gly	Val	Ala	Phe	Leu	Val	Arg	Lys	Lys	
					140				145					

<210> 23

<211> 204

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3537827CD1

<400> 23

Met	Met	Pro	Ser	Cys	Asn	Arg	Ser	Cys	Ser	Cys	Ser	Arg	Gly	Pro
1				5					10					15
Ser	Val	Glu	Asp	Gly	Lys	Trp	Tyr	Gly	Val	Arg	Ser	Tyr	Leu	His
					20				25					30
Leu	Phe	Tyr	Glu	Asp	Cys	Ala	Gly	Thr	Ala	Leu	Ser	Asp	Asp	Pro
					35				40					45
Glu	Gly	Pro	Pro	Val	Leu	Cys	Pro	Arg	Arg	Pro	Trp	Pro	Ser	Leu
					50				55					60
Cys	Trp	Lys	Ile	Ser	Leu	Ser	Ser	Gly	Thr	Leu	Leu	Leu	Leu	Leu
					65				70					75
Gly	Val	Ala	Ala	Leu	Thr	Thr	Gly	Tyr	Ala	Val	Pro	Pro	Lys	Leu
					80				85					90
Glu	Gly	Ile	Gly	Glu	Gly	Glu	Phe	Leu	Val	Leu	Asp	Gln	Arg	Ala
					95				100					105
Ala	Asp	Tyr	Asn	Gln	Ala	Leu	Gly	Thr	Cys	Arg	Leu	Ala	Gly	Thr
					110				115					120
Ala	Leu	Cys	Val	Ala	Ala	Gly	Val	Leu	Ala	Ile	Cys	Leu	Phe	
					125				130					135
Trp	Ala	Met	Ile	Gly	Trp	Leu	Ser	Gln	Asp	Thr	Lys	Ala	Glu	Pro
					140				145					150
Leu	Asp	Pro	Glu	Ala	Asp	Ser	His	Val	Glu	Val	Phe	Gly	Asp	Glu
					155				160					165
Pro	Glu	Gln	Gln	Leu	Ser	Pro	Ile	Phe	Arg	Asn	Ala	Ser	Gly	Gln

170	175	180
Ser Trp Phe Ser Pro Pro Ala Ser Pro Phe Gly Gln Ser Ser Val		
185	190	195
Gln Thr Ile Gln Pro Lys Arg Asp Ser		
200		

<210> 24
 <211> 367
 <212> PRT
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 3729267CD1

<400> 24		
Met Ala Ser Glu Leu Cys Lys Thr Ile Ser Val Ala Arg Leu Glu		
1 5 10 15		
Lys His Lys Asn Leu Phe Leu Asn Tyr Arg Asn Leu His His Phe		
20 25 30		
Pro Leu Glu Leu Leu Lys Asp Glu Gly Leu Gln Tyr Leu Glu Arg		
35 40 45		
Leu Tyr Met Lys Arg Asn Ser Leu Thr Ser Leu Pro Glu Asn Leu		
50 55 60		
Ala Gln Lys Leu Pro Asn Leu Val Glu Leu Tyr Leu His Ser Asn		
65 70 75		
Asn Ile Val Val Val Pro Glu Ala Ile Gly Ser Leu Val Lys Leu		
80 85 90		
Gln Cys Leu Asp Leu Ser Asp Asn Ala Leu Glu Ile Val Cys Pro		
95 100 105		
Glu Ile Gly Arg Leu Arg Ala Leu Arg His Leu Arg Leu Ala Asn		
110 115 120		
Asn Gln Leu Gln Phe Leu Pro Pro Glu Val Gly Asp Leu Lys Glu		
125 130 135		
Leu Gln Thr Leu Asp Ile Ser Thr Asn Arg Leu Leu Thr Leu Pro		
140 145 150		
Glu Arg Leu His Met Cys Leu Ser Leu Gln Tyr Leu Thr Val Asp		
155 160 165		
Arg Asn Arg Leu Trp Tyr Val Pro Arg His Leu Cys Gln Leu Pro		
170 175 180		
Ser Leu Asn Glu Leu Ser Met Ala Gly Asn Arg Leu Ala Phe Leu		
185 190 195		
Pro Leu Asp Leu Gly Arg Ser Arg Glu Leu Gln Tyr Val Tyr Val		
200 205 210		
Asp Asn Asn Ile His Leu Lys Gly Leu Pro Ser Tyr Leu Tyr Asn		
215 220 225		
Lys Val Ile Gly Cys Ser Gly Cys Gly Ala Pro Ile Gln Val Ser		
230 235 240		
Glu Val Lys Leu Leu Ser Phe Ser Ser Gly Gln Arg Thr Val Phe		
245 250 255		
Leu Pro Ala Glu Val Lys Ala Ile Gly Thr Glu His Asp His Val		
260 265 270		
Leu Pro Leu Gln Glu Leu Ala Met Arg Gly Leu Tyr His Thr Tyr		
275 280 285		

His	Ser	Leu	Leu	Lys	Asp	Leu	Asn	Phe	Leu	Ser	Pro	Ile	Ser	Leu
														300
														290
														295
Pro	Arg	Ser	Leu	Leu	Glu	Leu	Leu	His	Cys	Pro	Leu	Gly	His	Cys
														315
														305
														310
His	Arg	Cys	Ser	Glu	Pro	Met	Phe	Thr	Ile	Val	Tyr	Pro	Lys	Leu
														330
														320
														325
Phe	Pro	Leu	Arg	Glu	Thr	Pro	Met	Ala	Gly	Leu	His	Gln	Trp	Lys
														345
														335
														340
Thr	Thr	Val	Ser	Phe	Val	Ala	Tyr	Cys	Cys	Ser	Thr	Gln	Cys	Leu
														360
														350
Gln	Thr	Phe	Asp	Leu	Leu	Ser								365

<210> 25

<211> 681

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3768771CD1

<400> 25

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Glu	Lys	Gly	Asn	Val	Leu	Leu	Glu	Asp	Gly	Lys	Gly	Arg	Cys	Pro
										20				30
Phe	Asp	Pro	Asn	Phe	Lys	Ser	Thr	Ala	Leu	Val	Val	Asp	Gly	Glu
										35				45
Leu	Tyr	Thr	Gly	Thr	Val	Ser	Ser	Phe	Gln	Gly	Asn	Asp	Pro	Ala
										50				60
Ile	Ser	Arg	Ser	Gln	Ser	Leu	Arg	Pro	Thr	Lys	Thr	Glu	Ser	Ser
										65				75
Leu	Asn	Trp	Leu	Gln	Asp	Pro	Ala	Phe	Val	Ala	Ser	Ala	Tyr	Ile
										80				90
Pro	Glu	Ser	Leu	Gly	Ser	Leu	Gln	Gly	Asp	Asp	Asp	Lys	Ile	Tyr
										95				105
Phe	Phe	Phe	Ser	Glu	Thr	Gly	Gln	Glu	Phe	Glu	Phe	Phe	Glu	Asn
										110				120
Thr	Ile	Val	Ser	Arg	Ile	Ala	Arg	Ile	Cys	Lys	Gly	Asp	Glu	Gly
										125				135
Gly	Glu	Arg	Val	Leu	Gln	Gln	Arg	Trp	Thr	Ser	Phe	Leu	Lys	Ala
										140				150
Gln	Leu	Leu	Cys	Ser	Arg	Pro	Asp	Asp	Gly	Phe	Pro	Phe	Asn	Val
										155				165
Leu	Gln	Asp	Val	Phe	Thr	Leu	Ser	Pro	Ser	Pro	Gln	Asp	Trp	Arg
										170				180
Asp	Thr	Leu	Phe	Tyr	Gly	Val	Phe	Thr	Ser	Gln	Trp	His	Arg	Gly
										185				195
Thr	Thr	Glu	Gly	Ser	Ala	Val	Cys	Val	Phe	Thr	Met	Lys	Asp	Val
										200				210
Gln	Arg	Val	Phe	Ser	Gly	Leu	Tyr	Lys	Glu	Val	Asn	Arg	Glu	Thr
										215				225
Gln	Gln	Trp	Tyr	Thr	Val	Thr	His	Pro	Val	Pro	Thr	Pro	Arg	Pro

230	235	240
Gly Ala Cys Ile Thr Asn Ser Ala Arg	Glu Arg Lys Ile Asn Ser	
245	250	255
Ser Leu Gln Leu Pro Asp Arg Val Leu Asn Phe Leu Lys Asp His		
260	265	270
Phe Leu Met Asp Gly Gln Val Arg Ser Arg Met Leu Leu Leu Gln		
275	280	285
Pro Gln Ala Arg Tyr Gln Arg Val Ala Val His Arg Val Pro Gly		
290	295	300
Leu His His Thr Tyr Asp Val Leu Phe Leu Gly Thr Gly Asp Gly		
305	310	315
Arg Leu His Lys Ala Val Ser Val Gly Pro Arg Val His Ile Ile		
320	325	330
Glu Glu Leu Gln Ile Phe Ser Ser Gly Gln Pro Val Gln Asn Leu		
335	340	345
Leu Leu Asp Thr His Arg Gly Leu Leu Tyr Ala Ala Ser His Ser		
350	355	360
Gly Val Val Gln Val Pro Met Ala Asn Cys Ser Leu Tyr Arg Ser		
365	370	375
Cys Gly Asp Cys Leu Leu Ala Arg Asp Pro Tyr Cys Ala Trp Ser		
380	385	390
Gly Ser Ser Cys Lys His Val Ser Leu Tyr Gln Pro Gln Leu Ala		
395	400	405
Thr Arg Pro Trp Ile Gln Asp Ile Glu Gly Ala Ser Ala Lys Asp		
410	415	420
Leu Cys Ser Ala Ser Ser Val Val Ser Pro Ser Phe Val Pro Thr		
425	430	435
Gly Glu Lys Pro Cys Glu Gln Val Gln Phe Gln Pro Asn Thr Val		
440	445	450
Asn Thr Leu Ala Cys Pro Leu Leu Ser Asn Leu Ala Thr Arg Leu		
455	460	465
Trp Leu Arg Asn Gly Ala Pro Val Asn Ala Ser Ala Ser Cys His		
470	475	480
Val Leu Pro Thr Gly Asp Leu Leu Leu Val Gly Thr Gln Gln Leu		
485	490	495
Gly Glu Phe Gln Cys Trp Ser Leu Glu Glu Gly Phe Gln Gln Leu		
500	505	510
Val Ala Ser Tyr Cys Pro Glu Val Val Glu Asp Gly Val Ala Asp		
515	520	525
Gln Thr Asp Glu Gly Gly Ser Val Pro Val Ile Ile Ser Thr Ser		
530	535	540
Arg Val Ser Ala Pro Ala Gly Gly Lys Ala Ser Trp Gly Ala Asp		
545	550	555
Arg Ser Tyr Trp Lys Glu Phe Leu Val Met Cys Thr Leu Phe Val		
560	565	570
Leu Ala Val Leu Leu Pro Val Leu Phe Leu Leu Tyr Arg His Arg		
575	580	585
Asn Ser Met Lys Val Phe Leu Lys Gln Gly Glu Cys Ala Ser Val		
590	595	600
His Pro Lys Thr Cys Pro Val Val Leu Pro Pro Glu Thr Arg Pro		
605	610	615
Leu Asn Gly Leu Gly Pro Pro Ser Thr Pro Leu Asp His Arg Gly		
620	625	630
Tyr Gln Ser Leu Ser Asp Ser Pro Pro Gly Ser Arg Val Phe Thr		

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	635	640	645											
Glu	Ser	Glu	Lys	Arg	Pro	Leu	Ser	Ile	Gln	Asp	Ser	Phe	Val	Glu
		650							655					660
Val	Ser	Pro	Val	Cys	Pro	Arg	Pro	Arg	Val	Arg	Leu	Gly	Ser	Glu
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Ile	Arg	Asp	Ser	Val	Val									
				680										

<210> 26
<211> 137
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4248993CD1

<400> 26

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Glu	His	Val	Leu	Gln	Val	Val	Gln	Arg	Asp	Phe	Asn	Leu	Arg	Lys
										25				30
Lys	Glu	Glu	Glu	Arg	Leu	Ser	Glu	Leu	Lys	Gln	Lys	Leu	Asp	Glu
				35					40					45
Glu	Gly	Ser	Lys	Cys	Ser	Ile	Leu	Ser	Lys	His	Gln	Gln	Phe	Val
				50					55					60
Glu	His	Cys	Cys	Met	Arg	Cys	Cys	Ser	Pro	Phe	Thr	Phe	Leu	Val
				65					70					75
Asn	Thr	Lys	Arg	Gln	Cys	Gly	Asp	Cys	Lys	Phe	Asn	Val	Cys	Lys
				80					85					90
Ser	Cys	Cys	Ser	Tyr	Gln	Lys	His	Glu	Lys	Ala	Trp	Val	Cys	Cys
				95					100					105
Val	Cys	Gln	Gln	Ala	Arg	Leu	Leu	Arg	Ala	Gln	Ser	Leu	Glu	Trp
				110					115					120
Phe	Tyr	Asn	Asn	Val	Lys	Ser	Arg	Phe	Lys	Arg	Phe	Gly	Ser	Ala
				125					130					135
Arg	Phe													

<210> 27
<211> 117
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5402418CD1

<400> 27

Met	Lys	Phe	Gln	Tyr	Lys	Glu	Asp	His	Pro	Phe	Glu	Tyr	Arg	Lys
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Lys	Glu	Gly	Glu	Lys	Ile	Arg	Lys	Lys	Tyr	Pro	Asp	Arg	Val	Pro
				20					25					30
Val	Ile	Val	Glu	Lys	Ala	Pro	Lys	Ala	Arg	Val	Pro	Asp	Leu	Asp

35	40	45
Lys Arg Lys Tyr Leu Val Pro Ser Asp	Leu Thr Val Gly Gln Phe	
50	55	60
Tyr Phe Leu Ile Arg Lys Arg Ile His	Leu Arg Pro Glu Asp Ala	
65	70	75
Leu Phe Phe Phe Val Asn Asn Thr Ile	Pro Pro Thr Ser Ala Thr	
80	85	90
Met Gly Gln Leu Tyr Glu Asp Asn His	Glu Glu Asp Tyr Phe Leu	
95	100	105
Tyr Val Ala Tyr Ser Asp Glu Ser Val	Tyr Gly Lys	
110	115	

<210> 28
<211> 1058
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2417014CB1

<400> 28

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ccgctacaac cacaacaaaccg acgctgcctt	ctggcaccgg agcaaccaca gtaacgcgga 180
caatgaattt tactttcgct accaaaaaga gtctcactct	gttgcggcagg ctggagtgc 240
acgacgcaat ctcggctcac tgcaacccccc	acctccaga tggagttcg ctcttgc 300
ccaggctgga gtgcaatggc acaatctcg	ctcaccacaa cctctgcctc ccgggttcaa 360
gcgattctcc tgcctcagtc tccttagtgc	ctgggattac agcctggaga gtgtgtttcc 420
actccatagcc gagggccagc gcagtgccac	gtcacaggcc atgcaccaggc tcttcggc 480
gtttgtcaca ctgatgtttt cctctgtggg	cgggggcctt ggagggctcc tgctgaagct 540
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tgcctggcga gcatgaggat aaagccaga gacctctgag	ggtggaggag gcagacactc 660
aggcctaacc cactgcccagc ccctgagagg	acacgctcct tttcgaagat gctgactggc 720
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ccagaaggag gcccctttcc acaggcagcg tctccacagg	gagaggggca acaggaggct 840
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caacccgact gcccattccag cctgcacatg	ggtagaagag gccaaattga ggcacccaag 960
tgatccactg gccccacgtc acacagttac	agtgaagccc aagccaggcc tggttgaggg 1020
tgataaacgc cactgtgcgg caccgcaaaa	aaaaaaaaa 1058

<210> 29
<211> 2235
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2634931CB1

<400> 29

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cacagctttt ggcctgagcc cccgttacca	agagaaagga ggttttgcc aaggactcca 180

aggggagtgc acttgatgct ggtcgggacc caaagcaccc agccctccct gagacattgt 240
 gtgagtcggg ctgggcctca aacacggccc ccactgcccc accccagcca gggtggtgct 300
 tgtgtggta ggactttaaa tccagctgcc agaccctgg acgggagaag gagagacggc 360
 tggccaccat gcacggctcc tgcagttcc tgcgttct gtcggccta ctgctactgc 420
 tggtgccac cacaggcccc gttggagccc tcacagatga ggagaaacgt ttgatggtg 480
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 gatgggacga ggagctggcc gccttcgcca aggctacgc acggcagtgc gtgtgggccc 600
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 acgtgcccgt ggcattggag gagtggcacc acgagcgtga gcactacaac ctcagcgccg 720
 ccacctgcag cccaggccag atgtgggcc actacacgcg ggtgttatgg gccaagacag 780
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<210> 30
 <211> 1559
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 110960CB1

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 tacccaagcg gccacccggg ctcaggac ccctccccg agagacggca ccatgaccca 180
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 cgagaagaag gaggctccag cagtgcctc agcccccaccc tccttatgagg aagccacctc 300
 tggggagggg atgaaggcag gggcctccc cccagcccc acagcggtgc ctctccaccc 360
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<210> 31
<211> 876
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 380721CB1

<220>
<221> unsure
<222> 537, 585
<223> a, t, c, g, or other

<400> 31
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ctgtgttaagg gaatcgcatg gagatggca ttccgaactg ttaatggggc catgggactc 120
cagttgtctc tgatcacttg tgtggattttt cctggcgttag aacgcacagaa gcccgttagta 180
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gggactgagc aggagacggc cactccagag aacggcattt ttaaatcaga aagtctggat 360
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<210> 32
<211> 1521
<212> DNA
<213> Homo sapiens

<220>
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 <223> Incyte ID No: 829443CB1

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 gccccccagga ccggggaggc acaggtggcc cccaccaccc ggaggagcag ctcctgcccc 240
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<210> 33
 <211> 1349
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 1470058CB1

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<211> 2308
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 533825CB1

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<210> 42
<211> 1881
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1311833CB1

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<210> 43
<211> 1974
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 1342819CB1

<400> 43

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<211> 1061
<212> DNA
<213> *Homo sapiens*

<220>
<221> misc_feature
<223> Incyte ID No: 1871288CB1

<400> 44

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 <211> 505
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <223> Incyte ID No: 2587338CB1

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 <212> DNA
 <213> Homo sapiens

<220>
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 <223> Incyte ID No: 2821211CB1

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PF-0637 USN

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<210> 47
<211> 1727
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2824832CB1

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<211> 951
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3070147CB1

<400> 48

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<213> Homo sapiens

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<212> DNA
<213> *Homo sapiens*

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<212> DNA
<213> Homo sapiens

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<223> Incyte ID No: 3768771CB1

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<221> unsure
<222> 374
<223> a, t, c, g, or other

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 <213> Homo sapiens

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<211> 1293
<212> DNA
<213> Homo sapiens

<220>
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<223> Incyte ID No: 5402418CB1

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<212> PRT
<213> Homo sapiens

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35 40 45

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Cys	Leu	Ser	Leu	Pro	Lys	Cys	Trp	Asp	Tyr	Arg	Arg	Ala	Ala	Val
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Leu	Thr	Gln	Asp	Glu	Val	Gln	Trp	Cys	Asp	His	Ser	Ser	Leu	Gln
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Pro	Ser	Thr	Pro	Glu	Ile	Lys	His	Pro	Pro	Ala	Ser	Ala	Ser	Gln
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Val	Ala	Gly	Thr	Lys	Asp	Met	His	His	Tyr	Thr	Trp	Leu	Ile	Phe
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Trp	Asp	Tyr	Arg	Arg	Pro	Pro	Arg	Leu	Ala	Asn	Phe	Phe	Val	Phe
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Leu	Val	Glu	Met	Gly	Phe	Thr	Met	Phe	Ala	Arg	Leu	Ile	Leu	Ile
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Ser	Gly	Pro	Cys	Asp	Leu	Pro	Ala	Ser	Ala	Ser	Gln	Ser	Ala	Gly
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<400> 56

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				95					100						105
Asn	Trp	Tyr	Asp	Glu	Ile	Gln	Asp	Tyr	Asn	Phe	Lys	Thr	Arg	Ile	
				110					115						120
Cys	Lys	Lys	Val	Cys	Gly	His	Tyr	Thr	Gln	Val	Val	Trp	Ala	Asp	
				125					130						135
Ser	Tyr	Lys	Val	Gly	Cys	Ala	Val	Gln	Phe	Cys	Pro	Lys	Val	Ser	
				140					145						150
Gly	Phe	Asp	Ala	Leu	Ser	Asn	Gly	Ala	His	Phe	Ile	Cys	Asn	Tyr	
				155					160						165
Gly	Pro	Gly	Gly	Asn	Tyr	Pro	Thr	Trp	Pro	Tyr	Lys	Arg	Gly	Ala	
				170					175						180
Thr	Cys	Ser	Ala	Cys	Pro	Asn	Asn	Asp	Lys	Cys	Leu	Asp	Asn	Leu	
				185					190						195
Cys	Val	Asn	Asp	Ser	Glu	Thr	Lys	Ser	Asn	Val	Thr	Thr	Met	Leu	
				200					205						210
Tyr	Ile	Arg	Leu	Ala	His	Ile	Ser	Thr							
				215											